No.



8200150

TO AND TOWNOM THESE PRESENTS SHAME COME;

Agriculture Service Corporation

Colheceus, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A GOPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF Eighteen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EX-CLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT TY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT , 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

PERENNIAL RYEGRASS

'Premier'

In Lestimony Whereof, I have hereunto set my hand and caused the seal of the Blant Variety Protection Office to be affixed at the City of Washington

this 31st

day of August the year of our Lord one thousand nine

hundred and eighty-four.

Plant Variety Protection Office

dural Marketing Service

UNITED STATES DEPARTMENT OF AGRICULTURE FORM APPROVED AGRICULTURAL MARKETING SERVICE OMB NO. 40-R3822 LIVESTOCK, POULTRY, GRAIN & SEED DIVISION No certificate for plant variety protection may APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE be issued unless a completed application form INSTRUCTIONS: See Reverse, has been received (5 U.S.C. 553). TEMPORARY DESIGNATION OF 16. VARIETY NAME FOR OFFICIAL USE ONLY VARIETY PV NUMBER 8200150 R - 36Premier KIND NAME 3. GENUS AND SPECIES NAME XXX. FILING DATE 2:30 8/11/82 P.M. Perennial ryegrass Lolium perenne L. FEE RECEIVED DATE FAMILY NAME (BOTANICAL) 5. DATE OF DETERMINATION 500.00 8/11/82 -250.00Gramineae Sept. 1, 1979 NAME OF APPLICANT(S) 7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP 8. TELEPHONE AREA CODE AND NUMBER Agriculture Service 5240 Gaffin Road, S.E. Corporation Salem, Oregon 97301 503)581-8899 IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF 10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION 11. DATE OF INCOR-ORGANIZATION: (Corporation, partnership, association, etc.) PORATION 970 Corporation Oregon NAME AND MAILING ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE 12. **ALL PAPERS:** Mr. John P. Rutkai, Agriculture Service Corporation 5240 Gaffin Road S.E., Salem, Oregon 97301 CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED: 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.) 138. Exhibit B, Novelty Statement. 13C. Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.) 13D. Exhibit D, Additional Description of the Variety. 14a. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a). (If "Yes," answer 14B and 14C below.) X NO DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE 14c, IF "YES," TO 14B, HOW MANY GENERATIONS OF PRODUC-LIMITED AS TO NUMBER OF GENERATIONS? TION BEYOND BREEDER SEED? X YES FOUNDATION CERTIFIED REGISTERED DID THE APPLICANT(S) FILE FOR PROTECTION OF THIS VARIETY IN OTHER COUNTRIES? NO (If "Yes," give name of countries and dates.) 15b. HAVE RIGHTS BEEN GRANTED THIS VARIETY IN OTHER COUNTRIES? NO (If "Yes," give name of countries and dates.) 16. DOES THE APPLICANT(S) AGREE TO THE PUBLICATION OF HIS/HER (THEIR) NAME(S) AND ADDRESS IN THE OFFICIAL The applicant(s) declare(s) that a viable sample of basic seed of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable. The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Act. Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

(DATE) FORM GR-470 (1-78) (SIGNATURE OF APPLICANT)

(SIGNATURE OF APPLICANT)

EXHIBIT A

Origin and Breeding History of Premier Perennial Ryegrass

1. A test containing 1737 plots of perennial ryegrass was seeded at North Brunswick, New Jersey during August 1975. This test was established in a low area receiving very poor air circulation. The soil was shallow, compact, low in organic matter and had a rather low water holding capacity. Site conditions were favorable for a number of disease problems which were very prevalent at times, notably crown rust, Rhizoctonia brown patch, and winter brown blight. Severe drought stress could also be induced easily when irrigation water was withheld.

The test received relatively high maintenance during 1976 and 1977. It was mowed frequently at 2-cm, irrigated to prevent severe drought stress, and received moderate and high fertility levels on half of each plot, respectively. A period of high temperature and drought stress occurred during the spring of 1978. This caused serious thinning of most entries being especially serious on the high fertility half of each plot. At this time, irrigation and fertilization were discontinued and the mowing height was raised to 4-cm. By August 1978, only a few entries were producing attractive turf. All named varieties, with the exception of Pennant, received turf performance scores of five or below (Table 1).

Nine experimental entries were selected from this test. Selection was based on good turf performance (Tables 2 and 3). The eight entries designated H75-147, H75-209, H75-568, H75-831, H75-867, H75-964, H75-969 and H75-1091 were open-pollinated, single-plant progenies from an isolation nursery designated as Halls Mill Raod 1974. This nursery initially contained nearly 2500 spaced-plants obtained

from screening many thousands of turf-type ryegrass seedlings for resistance to crown rust (<u>Puccinia coronata Corda var. lolii Brown</u>). These seedlings originated from crosses of plants related to or selected from Omega, Citation, Pennfine and other germplasm sources originally collected from old turfs in Maryland, New Jersey, New York and Pennsylvania. Less promising plants were subsequently removed from this nursery prior to anthesis. The 900 plants remaining were allowed to interpollinate. Seed was harvested from each individual plant during late June of 1975.

The ninth entry, designated H75-1173, originated as the openpollinated progeny of a single plant (experimental designation

UM) selected from a lawn on the campus of the University of Maryland.

The pollen source came from (1) plants selected from Citation, Birdie and Pennfie, (2) clones collected from Baltimore, Maryland (Clone

L4H) Union County, New Jersey and the lawn on the University of

Maryland Campus, (3) a cross involving Citation, Manhattan and

Magnolia, and (4) a cross involving Ariki, Pennfine and Citation.

2. A total of 1680 tillers were selected from the nine entries. The procedure of selecting the best tillers from the best plots was followed in an attempt to take advantage of the natural selection that occurs under competition in solid-seeded turf-plots subjected to the stresses of close-mowing, diseases, heat, cold and drought.

The 1680 tillers were transferred to peat pots and subsequently transplanted to a spaced-plant isolation nursery at Adelphia, New Jersey during September 1977. Plants within this nursery were carefully examined at frequent intervals during the fall of 1977 and the winter and spring of 1978. Selection was based on attractive

dark green color, turf-type growth habit, freedom from disease, medium fine leaf texture, soft leaf tissue, and uniform early maturity. Plants not meeting these standards were removed prior to anthesis (Table 3). The 893 remaining plants were allowed to interpollinate in isolation. Bulked breeder seed was harvested from these plants during late June of 1978. Seed Propagation of Premier is limited to three generations of increase from breeder seed, one each of foundation, registered and certified.

- 3. No off-type plants or variants have been observed in the reproduction and multiplication of Premier perennial ryegrass.
- 4. Premier perennial ryegrass is a uniform and stable variety. Breeder seed, foundation seed, and certified seed generations have all produced turf of equal quality and acceptable uniformity. Foundation, and certified seed fields are similiar in appearance. They are as uniform as would be expected in this species, being similiar in uniformity to the standard varieties of the turf-type perennial reggrasses.

EXHIBIT B

Novelty Statement on Premier Perennial Ryegrass

Premier is most similar to 'Pennant'. However, 'Premier' produces turf of greater density (436 vs. 353 tillers per 100 sq. cm.), 'Premier' can also produce turf with higher performance scores under conditions of close mowing and high maintenance. Also, 'Premier' is more susceptible to damage from sod webworms (72 vs. 18 percent damage).

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Table 4. Tiller densities of perennial ryegrass varieties grown at Adelphia, New Jersey during 1981.

Variety	Tillers per 100 sq. cm.
Premier	436
Pennant	353
LSD at 5%	53

Table 4a. Tiller densities of perennial ryegrass varieties at North Brunswick, New Jersey during 1983.

Variety	Tillers per 10-cm diameter plug		
Premier	323		
Pennant	248		
LSD at 5%	17		

Eight replications - Test was mowed at 3/4-inch and irrigated as needed.

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Table 6. Reaction of perennial ryegrass varieties to sod webworms in a turf trial seeded September 1978 at Adelphia, New Jersey.

Variety	Percent damage from sod webworms	Number of sod webworms larvae per 100 sq. cm.
Pennant	18	0.7
Premier	72	9.2
LSD at 5%	12	2.8

Table 6a. Reaction of perennial ryegrass varieties to sod webworms in a turf trial seeded September 1979 at Adelphia, New Jersey.

1	1979 at Adelphia, New Jersey. Fact 1980 812/30/83
Variety	Percent damage from sod webworms
Pennant	5
Premier	32
LSD at 5%	14

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FORM GR-470-36 (9-76)

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE GRAIN DIVISION HYATTSVILLE, MARYLAND 20782 OBJECTIVE DESCRIPTION OF CULTIVARS RYEGRASS

(Lolium spp.)	
NAME OF APPLICANT(S)	VARIETY NAME OR TEMPORARY DESIGNATION
Agriculture Service Corporation	Premier
ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code)	FOR OFFICIAL USE ONLY
5240 Gaffin Road SE Salem, Oregon 97301	PVPO NUMBER 8200150
Place the appropriate number that describes the varietal character of this variety in the boxen number if either 99 or less or 9 or less. Descriptions of characters should represent those the data should be for SPACED PLANTS. Give additional description for all characteristics that petrinent comparative trial and evaluation data.	at are typical for the variety. Ranges may be given also. Measure t cannot be adequately described in the form below. Append all
1. SPECIES: 1 = L. MULTIFLORUM (annual or Italian: includes Westerwoldicum) 2 = L. P 4 = HYBRID (of species) 5 = OTH	ERENNE (perennial) 3 = L, RIGIDUM (includes Wimmera
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3. DURATION: 3 1 = ANNUAL OR BIENNIAL 2 = SHORT LIVED PERENNIAL (3-4 years)	3 = PERENNIAL (more than 4 years)
STANDARD CULTIVAR 1 = GULF 2 = WIMMERA 62 3 = LINN 5 = NORLEA 6 = ABERYSTWYTH S-23 7 = MAN	I PELO
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3 - MEDIOW	N
5. MATURE PLANT HEIGHT (Use standard cultivars from above) :	A STATE OF THE STA
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5 3 CM TALLER THAN	
6. PERCENT WINTER DAMAGE (estimated as percent of the area appearing dead).	Use standard cultivars from above for comparison:
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1.2 CM. LONGER THAN	9 = ERÉCT ULTIVAR
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AND DED A SOCIETY OF THE PROPERTY OF THE PROPE	4. SEED:		A AFORTON			
8 8 3 MS. TEN 1,000 SEEDS	, , , , , , , , , , , , , , , , , , , 		TEXPESSATUR OF CAT			

15.	DISEASE (0 = N 8 = H	OT TESTED, 2 = HIGHLY S IGHLY RESISTANT):	USCEPTIBLE, 4	= MODE	RATELY SUSCEPTIBL	E, 6 = MC	DDERATELY RESISTANT,	
6	CROWN RUST (*	0 DOLLAR	SPOT (S	clerotinia)	7	BROWN PATCH (Rhizoctonia)	
6	LEAF SPOT (Hel	minthosporium)	8 MILDEW			3	OTHER (Specify)	
0	SNOW MOLD (T)	yphula)	6 RED THE	READ (C	orticium)		stem rust	
16.		TESTED, 2 = HIGHLY SUGHLY RESISTANT):	ISCEPTIBLE, 4	MODER	ATELY SUSCEPTIBLE	, 6 = MO	DERATELY RESISTANT,	
0	(Specify)							
17.	COMPARISON IS						FOR VARIETY WITH WHICH ENSER, MORE PERSISTENT,	
	RESEMBLANCE	CHARACTER		_	SIMILAR VARIETY			
	1	PLANT HABIT (erectness)	,	8	1 = GULF			
	. 3	TILLERING		8	2 = WIMMERA 62			
	3	WINTER HARDINESS		8	3 = LINN			
	3	HIGH TEMP. STRESS RESI	STANCE	7	4 = PELO			
	2	TURF PERSISTENCE		8	5 = NORLEA			
	3	PLANT COLOR		8	6 = ABERYSTWYTH	S-23		
	2	VERTICAL SEEDLING GR	OWTH RATE	8	7 = MANHATTAN			
	3	CROWN DENSITY		8	8 = PENNFINE			
	3	MOWER SHREDDING RES	STANCE	8				
18.	GIVE AREA OF A	DAPTATION AND INTENDE	o useWhere	<u>tur</u> f	type ryegra	asses	are well adapted	
19.	GIVE AREA TEST	RESULTS PRESENTED FRO	ом: <u>N</u> e	w Jei	sey, Oregon			
CON	MENTS:			. —				

EXHIBIT D

Additional Description of Premier Perennial Ryegrass

Premier is an early maturing, persistent, low-growing, turf-type perennial ryegrass with an attractive bright dark green color, medium fine texture, and improved mowing qualities. It has the excellent seedling vigor, wear tolerance, and wide range of soil adaptation characteristic of the best turf-type ryegrasses. This variety has good cold hardiness and improved heat tolerance. It has shown good resistance to the large brown patch disease incited by Rhizoctonia solani Kunn. It has also shown improved resistance to the winter brown blight, dollar spot, crown rust and red thread diseases incited by Drechslera spp., Sclerotinia homoeocarpa F.T. Bennett, Puccinia coronata Corda var Lolii Brown, and Laetisaria fuciformis (McAlpine) Burdall, respectively.

Table 13. Reaction of Perennial ryegrass cultivars and selections to the winter brown blight disease incited by Helminthosporium siccans in turf trials at Hubbard, Oregon*

	ultivar or election	 	Percent** brown blight	
1. 2. 3. 4. 5.	Blazer Pelo Manhattan Premier Belle		13.0 15.0 15.7 16.0 16.0	
6. 7. 8. 9.	Omega Pennant R-37 Dasher R-35		16.0 17.0 17.0 17.7	
11. 12. 13. 14. 15.	Diplomat Loretta R-38 Jennifer FRR-1		18.3 18.7 18.7 18.7 19.3	
16. 17. 18. 19. 20.	Fiesta Derby Regal Bianca H-969		19.3 19.3 20.7 21.0 21.7	
21. 22. 23. 24. 25. 26.	Birdie Rudo Pennfine NK-200 Linn Citation LSD at 5%		23.3 25.0 26.0 26.7 26.7 33.3 5.6	

^{*}Turf trials mowed at $1\frac{1}{4}$ -inch and maintained at a moderate fertility level.

^{**}Plots rated February 1979.

Table $\frac{14}{4}$. Reaction of perennial ryegrass cultivars and selctions to the red thread disease incited by <u>Corticium fuciforme</u> in turf trials near Hubbard, Oregon.*

	ltivar selection	Red Thread** 9 = least diseas		ultivar or selection	Red thread 9 = least disease	
1.	Citation	7.2	16.	н-969	5.8	
2.	Premier	7.0	17.	Rudo	5.8	
3.	Regal	7.0	18.	Diplomat	5.5	
4.	FFR-1	6.7	19.	M-456	5.4	
5.	Belle	6.5	20.	Linn	5.4	
6.	Loretta	6.5	21.	R-35	5.2	
7.	Birdie	6.5	22.	Blazer	5.2	
8.	Pennant	6.0	23.		5.2	
9.	R-38	6.0	24.	Bianca	5.2	
10.	R-37	6.0	25.	NK-200	5.0	
11.	Fiesta	5.9	26.	Manhattan	4.9	
12.	Derby	5.9	27.	Pelo	4.9	
13.	Dasher	5.9				
L4.	Omega	5.9	LSD	.05	0.9	
15.	Pennfine	5.9			•	

^{*}Turf maintained at moderate fertility and mowed at 1-1/4-inches.

 $^{^{**}}$ Mean of ratings made September 1979 and December 1979.

NPI SEED INC.

Oregon Division 5240 Gaffin Road, S.E. Salem, Oregon 97301 United States of America 503 581-8899

TELEX: 15-1654 NPISEED FAX: 503 581-9021

January 7, 1988

Plant Variety Protection Agency USDA National Agricultural Library Bldg, Room 500 Beltsville, MD 20705

Subject: Request for Corporate Name Assignment

Our company has undergone two name changes in the last few years, from Agriculture Service Corp. to NPI AgService, and now to NPI Seed Inc.

On behalf of NPI Seed Inc., I request that ownership of the following varieties be assigned to NPI Seed Inc. in order to reflect these changes:

'Premier'

no. 8200150 ·

'Tempo'

no. 8500205

'EZ Pick'

no. 8500080

'EZ Harvest'

no. 8500079

Our remittance is enclosed.

Sincerely,

Greg Loberg

Research Manager

Oregon Division

GL:jb

Enc.

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